

# UET120 & UET240 UNIVERSAL ELECTRONIC TIMER

UET120 - 120 Volt 50/60 Hz

UET240 - 208/240 Volt 50/60 Hz

## INSTALLATION AND OPERATING INSTRUCTIONS

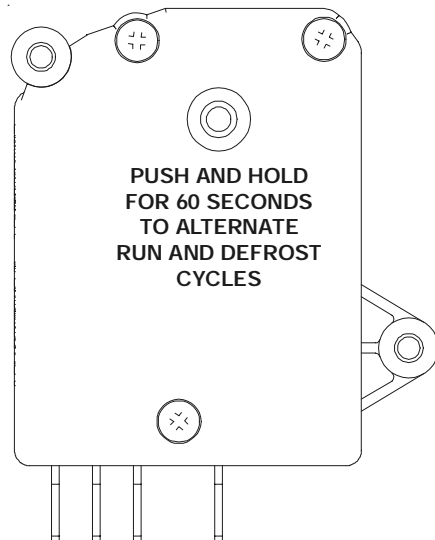
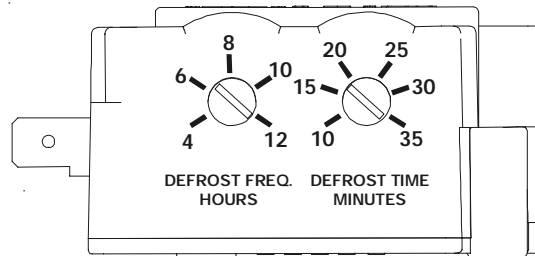
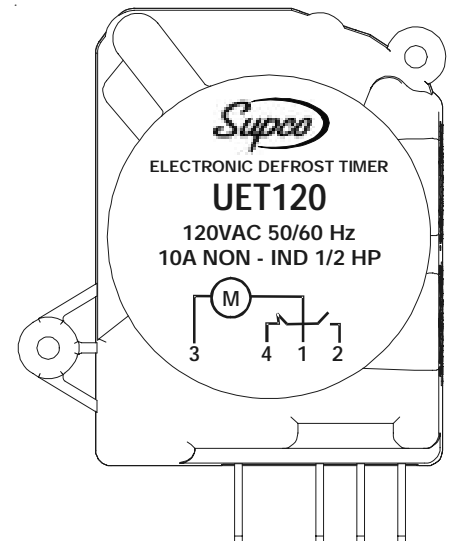
### Installation:

The UET terminals configurations are similar to most original timers. In this case the UET is a PLUG-IN-REPLACEMENT of the original timer.

Make sure to compare terminal designations of the UET to the timer being replaced. The UET terminal designations are listed below.

UET TERMINAL	WIRING CONNECTION
1	Common, Line 1
2	Defrost heater
3	"Timing Motor", Line 2
4	Compressor

In the table the term "Timing Motor" is just a convention since the UET is an electronic device and has no motor.



Some refrigerators do not use plug-in connectors for a defrost timer hook-up. Each terminal is connected using a separate wire. In this case, very carefully bend terminals 2, 4, 3 as illustrated. Use needle-nose plier to hold the terminal while bending it with another plier.

### Set-up:

After the UET has been installed, and power has been restored to the equipment, the compressor cycle will be enabled. To advance to the defrost cycle, press and hold the button on the UET for 30 - 60 seconds. The compressor should stop and the defrost circuit should immediately activate. The defrost cycle will continue for the time set on the "UET will remember its position in the compressor cycle for at least 4 hours without power. If the UET is in the defrost cycle when power is interrupted, the defrost cycle will start at the beginning when power is restored. Holding the button will continually advance the defrost and run cycle.

The UET will directly replace all Whirlpool "Continuous Run" and "Cumulative Run" defrost timers as well as all other makes. The housing of the UET has dimensions that will allow the UET to replace Paragon™, Invensys™, Nascorp™, and most other manufacturers. "Defrost Frequency" is adjustable from 4 to 12 hours, and the "Defrost Time" is adjustable from 10 to 35 minutes.



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The UET will plug into the existing wiring harness in all but the following applications. Follow the specific installation instructions listed below in these cases.

### **MOST WESTINGHOUSE, MONTGOMERY-WARD, SIGNATURE AND SOME GE, PHILCO, SEARS AND NORGE 3 TERMINAL MODELS**

Westinghouse, Montgomery-Ward and Signature timer numbers such as: C42669, C56363 thru C56883, C460419 thru C714704, 2656D71H01 thru 2656D71H06 and 2660D93H02. Also, GE model WR9X217, Philco 5833-027, Sears 5586250 and Norge 12-4611. To install an UET120 in these applications, an adapter kit (SUPCO No. WH3) will be required.

Using the SUPCO No. WH3, three wire adapter kit, attach the short jumper between terminals 3 and 4. Next, attach the three wire connector harness to the UET. Attach harness leads to the same numbered original wiring terminals. The original ground lead (old terminal #3) must not be used. Tape or sleeve the end and secure it out of the way.

### **KELVINATOR, NORGE AND DURACREST 4 TERMINAL MODELS**

The UET will replace many Kelvinator, Norge and Duracrest four terminal original defrost timer by using SUPCO No. WH4, four wire adapter harness kit. Wiring will require connection of the harness leads to the same numbered original wiring terminals unless the model number is listed below. Any leads removed from original terminal "L" should be stripped and connected together using a wire nut. (Terminal L was a junction point and these leads must be reconnected to each other only.) The exceptions follow:

### **SOME KELVINATOR AND DURACREST 4 TERMINAL MODELS**

When replacing Kelvinator or Duracrest timer numbers G159148, K1227902, 1166601, 1222012, and Norge 13-5699, the UET will be installed with the same four wire adapter harness kit, but the wiring will be slightly different. Harness lead 2 is connected to No. 2 of the original wiring. Harness lead 1 is connected to No. 3, harness lead 4 is connected to No. 4, and harness lead 3 is connected to No. 1 of the original wiring.

### **SOME ADMIRAL, TAPPAN, HOTPOINT AND NORGE 5 TERMINAL MODELS**

Following are some common five-terminal defrost timers. Admiral and Tappan timer numbers 23103-2 thru 24399-1 and 26308-2. Hotpoint timer numbers 123400 and WR9X5034 and Norge timer numbers 13-4243 thru 13-5423. In these applications, use SUPCO No. WH4, four wire adapter harness kit if needed. The original wire from terminal No. 5 (if used) must be connected to terminal No. 4 of the UET120 along with the original wire No. 4.

### **AMANA, FRIGIDAIRE, AND SOME MONTGOMERY-WARD AND NORGE 5 AND 6 TERMINAL MODELS**

There are some other 5 or 6 lead timers in use. These are typically, Amana numbers C35250-1 thru C35655-7, Frigidaire numbers 620524 thru 623773, 6540723 thru 6594595 and 7511697 thru 7546847. Also, Montgomery-Ward numbers C48435 and 623772 thru 628518 and Norge numbers 11-9481, 12-4609 and 12-9282. In these applications, use the SUPCO No. WH4, four-wire adapter harness kit if needed. Wire harness lead 1 to No. 3 of the original wiring, lead 2 to No. 4, lead 3 to No. 1, and lead 4 to No. 2. Original wire No 5 will not be used, it should be sleeved or taped and secured out of the way. Any wires that were on original terminal No. 6 should be stripped and connected together using a wire nut. (Terminal No. 6 was a junction point and these leads must be reconnected to each other only.)

### **NOTE:**

If SUPCO adapter kit WH3 or WH4 is specified above, please order separately. A mounting bracket may also be required depending on the installation. This may also be ordered separately. (SUPCO part no. MB1)

### **IMPORTANT!**

In all cases, exposed parts of the adapter wiring must be electrically insulated. Unused wires must be insulated and secured to prevent future pinching, cutting, or entanglement with fans or other moving parts.

During the installation, the "**DEFROST FREQUENCY**"(DF) and the "**DEFROST TIME**"(DT) must be set. Try to determine the correct settings by looking for information on the old timer, by cross reference material or service information on the specific unit being serviced.

The actual settings are established by the refrigerator manufacturer and are based on the wattage of the defrost element and it's physical location as well as several other factors and assumptions.

**If there is no information pertaining to the correct settings to be used, follow the cross reference timing guide. This information is based on recent model information and is not intended to override manufacturer's recommendations.**